OIPE JC144 APR 28 2005 PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Leonid Matsiev
Application No.: 10/685,962 Group No.: 2856
Filed: 10/15/2003 Examiner: R. M. MILLER
For: METHODS AND APPARATUS FOR CHARACTERIZING MATERIALS BY USING A MECHANICAL RESONATOR

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT AFTER MAILING DATE OF FINAL ACTION, NOTICE OF ALLOWANCE OR ACTION THAT CLOSES PROSECUTION BUT BEFORE PAYMENT OF ISSUE FEE (37 C.F.R. § 1.97(d))

The information disclosure statement transmitted herewith is being filed ***after*** a final action under § 1.113, or a notice of allowance under § 1.311, whichever occurs first, but before, or simultaneously with, the payment of the issue fee.

The applicant submits this Information Disclosure Statement and references to bring to the Office's attention art that was recently cited in opposition proceedings before the European Patent Office concerning a European counterpart of this application, which has been granted as EP 0943091.

Other documents filed by the parties to the opposition, including the opposition and reply papers, can be found by searching for "ep0943091" at the EPO's Online File Inspection site on the World Wide Web, at http://ofi.epoline.org/view/GetDossier?dosnum=&lang=EN. The applicant is willing to provide copies of the opposition and reply papers, and any other documents desired by the Examiner, at the Examiner's request.

Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

A listing of the references on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of the Non-Patent Literature publications have been provided. Applicants

respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

This submission is being made after a final office action and within three month of citation by the foreign patent office. Therefore, a fee is believed due at this time. The Commissioner is hereby authorized to charge the fee to Applicants' attorney's Deposit Account No. 50-0496. If any additional fee is due with the filing of this paper please charge the amount to deposit account 50-0496. A duplicate copy of this paper is attached.

Date: 4/28/05

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INFORMATION DISCLOSURE STATEMENT BY THE APPLICANT		
	Serial No.:	10/685,962
	Filing Date:	10/15/2003
	First Inventor:	Leonid Matsiev
	Art Unit:	2856
	Examiner:	R .M. Miller
	Attorney Docket Number:	1012-122-C4(97-8CIP1CON4)

Examiner's Signature		Date Considered	

Examiner's Initials	Non-Patent Literature	
	BALTES, H. et al., " Sensors Update" (1996), pp.38-83, Vol. 2, Ch. 2	
	BENES, E., et al., " Sensors based on piezoelectric resonators", Sensors and Actuators A 48 (1995) , pages 1-21	
	BRET, A. M., et al., " Viscosity and Density Sensing with Ultrasonic Plate Waves", 8253a Sensors and Actuators – A Physical A 22 (1990) March, pages 704-708, NO. 1/3, Lausanne, CH	
	GRATE, J. W. et al., "Acoustic Wave Micro sensor", Analytical Chemistry, November 1, 1993, pp. 940-948, Vol. 65, NO. 21	
	HORINE, B. N. and Malocha, D. C., " Equivalent Circuit Parameter Extraction of SAW Resonators", Utrasonics Symposium, (1990), pp. 477-482	
	MARTIN, S. J. et al., " Characterization of a Quartz Crystal Microbalance with Simultaneous Mass and Liquid Loading", Analytical Chemistry, 1991, pp. 2272-2281, Vol. 63 Nr. 20	
	THOMPSON M. and Stone D.C., " Surface Launched Acoustic Wave Sensors", Chemical Analysis, 1997, pp. 1-196, Vol. 144	
	SORAB, J. and Salok, G.S., " Engine Oil Viscosity Sensors Using Disks Of PZT Ceramic as Electromechanical Vibrators", Society of Automotive Engineers, Inc., Copyright 1997, pp. 85-91	

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First Inventor:	Leonid Matsiev
Art Unit:	2856
Examiner:	R. M. Miller
Attorney Docket Number:	1012-122C4(97-8CIP1CON4)

Examiner's Signature		Date Considered	
Examiner's Initials	Document Number	Publication Date MM-DD-YYYY	Name of Inventor or Author
	5,661,233	08/26/1997	Spates et al.